

# **The Effect Of Users' Grouping On The Convergence Behavior Of The Linear Group-Wise SIC**

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## **Summary**

In this paper, we use the whitening filter theory to classify different linear group-wise successive interference cancellation multiuser detectors. Three major categories are distinguished namely the whitening filter, the partially whitening filter and the nonwhitening filter based group-wise successive interference cancellation detectors. Using the same theory, we study the effect of users' grouping on their convergence behavior. Our analyses are verified through simulation.

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